55 For Secretary.

Annual Report of the Board of Public Health Works Bombay Presidency

For the Year 1934-35

[Price—Anna 1 or 1d.]

BOMBAY
PRINTED AT THE GOVERNMENT CENTRAL PRESS
1936

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on 01 February, 2020

ANNUAL REPORT OF THE BOARD OF PUBLIC HEALTH WORKS, BOMBAY PRESIDENCY, FOR THE YEAR ENDING 31st MARCH 1935.

The Board of Public Health Works controls and directs the public health engineering schemes of the Presidency including Sind. Its personnel consists of five ex-officio members and one non-official nominated from amongst the members of the local legislature. During the year under report, it was as follows:—

President.

The Commissioner, Central Division—

W. W. Smart, Esquire, B.A., Dip. Agr., I.C.S., J.P.

Members.

The Secretary to Government, General Department—

H. F. Knight, Esquire, B.A., I.C.S., J.P.

The Chief Engineer and Secretary to Government, Public Works Department—

C. M. Lane, Esquire, C.S.I., I.S.E.

The Director of Public Health for the Government of Bombay—

Lieut.-Colonel A. Y. Dabholkar, M.C., M.B.B.S., B.Sc., D.P.H., D.T.M. & H. (Lond.), I.M.S.

Non-official Member.

Hoosenally M. Rahimtoola, Esquire, B.A., M.L.C., J.P.

Member and Secretary.

The Consulting Public Health Engineer to Government—

V. G. Shete, Esquire, L.C.E., M.I.E. (Ind.), M.R.San.I., A.M.I.San.E. (from 1st April 1934 to 2nd January 1935).

F. Green, Esquire, A.M.Inst.C.E., A.M.I.San.E., M.R.San.I. (Lond.) (from 3rd January 1935 to 22nd March 1935—during leave period of Mr. V. G. Shete).

V. G. Shete, Esquire, L.C.E., M.I.E. (Ind.), M.R.San.I., A.M.I.San.E. (from 23rd March 1935 to end of the year).

2. The question of revision of the powers and functions of the Board, consistent with the changed policy of Government regarding granting of subventions to local bodies, was taken up with Government and pending their decision, the Board continued to work under the orders in force during the last year with the Public Health Branch of the Public Works Department reconstituted according to Government Resolution, Public Works Department, No. 6961/27, dated 3rd February 1934.

This Government Resolution lays down the duties of the Consulting Public Health Engineer, who is the technical adviser of the Board, and the procedure to be observed with regard to any new project or work to be undertaken by him and these are given in Appendix I attached.

3. There was only one meeting held during the year on 14th July 1934. The projects which came up for the Board's approval subsequently were dealt with by circularising the members.

During the year under report, the Board accorded approval to the undertaking of preparation of the following projects by the Executive Engineers concerned :—

Name of work.	Agency.
(1) Disposal of Mill Effluent at Broach.	Executive Engineer, Surat and Broach Division.
(2) Byadgi Water Supply..	Executive Engineer, Dharwar Division.
(3) Amalner Water Supply.	Executive Engineer, Khandesh Division.
(4) Nipani Water Supply ...	Executive Engineer, Belgaum Division.

(*ii*) The following projects were approved and execution of the same authorised by the agency noted against each :—

Name of Project.	Estimated cost.	Agency for execution.	
		Municipal.	Government.
	Rs.		
1. Sholapur Water Supply—			
(*a*) Operating the sluice valve and taking the gauge readings.	345	.....	Executive Engineer, Sholapur Division.
(*b*) Additions and alterations to the existing Venturi meter.	3,994		
(*c*) Providing a floating valve to control waste water at the Break Pressure Tank.	2,842		
2. Bijapur Water Supply—			
Renewal of rising main ...	1,90,866	Bijapur Municipality.	.....
3. Mahad Water Supply ...	1,61,292	.....	Executive Engineer, Ratnagiri Division.
4. Nargund Water Supply ...	6,700	Nargund Municipality.	.....

(*iii*) Qut of the eight schemes to which the Board accorded approval last year for the preparation of plans and estimates by Government agency, only one scheme (viz. Mahad Water Supply)

prepared by the Executive Engineer, Ratnagiri Division, was received and was passed on after scrutiny by the Consulting Public Health Engineer and approval of Board, to the Superintending Engineer, Southern Circle, for obtaining the sanction of Government. The remaining schemes were in the process of preparation and their receipt was awaited.

Out of the eleven projects approved last year for execution either by Government agency or by local bodies, work on one (viz. Bhiwandi Water Supply) was completed. Work on six (viz. Chiplun Water Supply, Shikarpur Drainage, Sholapur Distribution System, Ahmedabad Suburban Drainage, Karachi Water Mains and Karachi Supplementary Drainage) was in progress, and work on the remaining four was not commenced pending Government sanction to the raising of loan. The works in progress were duly inspected by the Consulting Public Health Engineer.

Work on the Mutha River Improvement Scheme, Poona City, for canalising the river approved by the Board last year has steadily progressed and the bed of the river is now in a better sanitary condition.

4. The Consulting Public Health Engineer arranged to inspect almost all the public health works in the Presidency carried out by local bodies either by himself or through one of his assistants and issued inspection reports in respect of the following:—

(1) Shikarpur Drainage.
(2) Surat Drainage.
(3) Kurla Drainage.
(4) Vile Parle Drainage.
(5) Satara Water Supply.
(6) Dhulia Water Supply and Drainage.
(7) Ahmednagar Water Supply.
(8) Sholapur Water Supply and Drainage.
(9) Gadag-Bettigeri Drainage.
(10) Dharwar Water Supply.
(11) Karwar Police Lines Drainage.

A good deal of preliminary work by way of inspection and advice has to be carried out by this officer before a request actually emanates from a local body for the preparation of plans and estimates for any new project. The local bodies concerned are in many cases not able to give effect at once to all the advice tendered by this officer as they have always to depend upon the state of their finances; and hence the volume of work initiated in a year as reflected in the permissions granted for the preparation of plans and estimates and approvals accorded to the projects by the Board is small when compared to the work actually proposed.

5. The Consulting Public Health Engineer was also engaged in supervision of the following public health works of Indian States:—

(1) Jawhar Water Supply.
(2) Kurundwad Water Supply.
(3) Akalkot Water Supply.

These works were visited as often as the local administration required and the works at all these places are now sufficiently advanced and are showing good progress.

6. The expenditure on Public Health works carried out by Government agency, (Public Works Department staff) for local bodies amounted to Rs. 2,21,988 and that incurred from Provincial funds amounted to Rs. 5,99,806 giving a total of Rs. 8,21,794. The total Government grant-in-aid to cover centage charges or rebates amounted to Rs. 6,765.

7. Fees are now levied for consultation, scrutiny of plans and estimates and superintendence on the scales as given in Appendix II. The total amount of such fees recovered during the year and credited to Government amounted to Rs. 55,603.

8. It has been noticed that no attempt is yet made by the local bodies either to keep or maintain the annual statistical data of the operation of these very important public health works.

I may reiterate that with the progress of time and increase in population and consequent demand for more amenities, it is becoming increasingly clear that provisions made in the past have always required revision earlier than was forecast. It is therefore necessary that each local body having a public water supply or drainage system should have a separate annual report of its working made out and recorded, to enable improvements to be considered sufficiently in advance and in good time to make financial arrangements to provide extensions.

There is much room for progress in providing amenities of water supply and drainage and directly helping to raise the standard of health throughout the Presidency.

The following table will indicate the population of the municipal towns in the whole Presidency that have been provided with water supply and drainage and the population that still remains to be served with water supply : —

Bombay British Districts and their population.		Population under Local Authorities, Municipalities or Notified Area Committees.	Population to which water supply is provided.	Population without public water supply.	Population to which underground drainage is provided.
1		2	3	4	5
(1) Sind ...	3,887,070	643,831	350,289	293,542	247,791
(2) Northern Division .	4,060,352	804,031	688,440	115,591	398,688
(3) Central Division ...	7,372,637	1,120,023	753,356	366,667	163,267
(4) Southern Division ...	5,397,681	556,184	261,526	294,658	...
Total ...	20,717,740	3,124,069	2,053,611	1,070,458	809,746

9. As Water Supply and Drainage works in progress or their annual maintenance are now being carried out either by Government in the Public Works Department or by local bodies, the details for the same appear in the Annual Administration Reports of either the Government in the Public Works Department or of those of the several Municipalities. These details are therefore now omitted from the report of the Board of Public Health Works, but are compiled together and recorded separately in the Consulting Public Health Engineer's Office.

V. G. SHETE,
Secretary,
Board of Public Health Works,
Bombay Presidency.

Poona, 20th November 1935.

APPENDIX I.

Procedure to be observed in respect of preparation and execution of Public Health schemes by Government Agency.

The following duties are assigned to the Consulting Public Health Engineer to Government :—

(*a*) To act as Consulting Engineer to Government in connection with all Public Health Works which may be inaugurated by Government ;

(*b*) To scrutinise and report on all Public Health projects, prepared by outside agencies, which are submitted to Government for approval by local or outside bodies ;

(*c*) To act, when required, and with the approval of Government, as Consulting Engineer to local and outside bodies in any Public Health matter ; the terms, as per Appendix II, shall apply in each case.

The procedure to be observed in regard to any new project or work required to be undertaken by the reconstituted Public Health Branch should be as follows :—

(*a*) preliminary investigations for a new project should be made by the Consulting Public Health Engineer to Government or by a member of his staff ;

(*b*) in cases where the cost has to be borne by Government, the survey for a new project should, if it be found necessary as a result of the preliminary investigations, be undertaken by the Executive Engineer of the Public Works Department Division concerned ; but this should be done under the direction of the Consulting Public Health Engineer to Government, and after submission to Government, *through* the Consulting Public Health Engineer, of an estimate for the survey and the receipt of Government sanction to the estimate ;

The above procedure should, however, not be followed in those cases where the work is for an outside body which has paid the estimated cost of the survey ;

(*c*) preparation of the plans and estimates for a new project should be undertaken in the office of the Executive Engineer of the Public Works Department Division concerned and under the direction of the Consulting Public Health Engineer to Government ;

(*d*) execution of Public Health Works should be undertaken by the Executive Engineers of the Public Works Department Divisions concerned, who should make no deviations from the sanctioned plans and estimates without the authority, in writing, of the Consulting Public Health Engineer to Government. The latter officer should arrange for the periodical inspection of works in progress either by himself or by one of his assistants.

The following detailed instructions should be followed when Public Health Schemes are proposed to be carried out by Government, or when the Consulting Public Health Engineer to Government is permitted to take up works for local or outside bodies :—

(*a*) The Consulting Public Health Engineer will, in the first instance, visit the place for which a Public Health work is proposed, and after preliminary investigation and examination of any data which may be available, submit his report to Government, or to the local or outside body concerned, on the possibilities and probable extent and cost of the scheme ;

(*b*) When, after consideration of the report, Government, or the local or outside body, as the case may be, decides that the scheme shall be proceeded with, the Consulting Public Health Engineer will issue instructions to (*i*) the Executive Engineer of the Public Works Department Division concerned, in the case of a Government work or a work for such local body as may desire that the project should be prepared by Government, or (*ii*) the Engineer of the local or outside body, regarding the surveys which are necessary before detailed plans and estimates can be prepared ;

(*c*) On receipt of these instructions, the Executive Engineer of the Public Works Department Division concerned will (in case the cost is to be borne by Government or where projects on behalf of local bodies are to be prepared by the Public Works Department), submit to Government, through the Consulting Public Health Engineer to Government, an estimate of the cost of the survey ; the estimate must include the cost of the Establishment necessary for carrying out the survey. The above procedure will not, however, be followed in cases where the work is for an outside body which has already paid these costs ;

(*d*) On receipt of the sanction of Government to the estimate and the allotment of funds (in the case of Government works) the Executive Engineer concerned will carry out the survey,

and collect all data necessary for the preparation of the project, and will, on completion of the survey, submit all drawings and data to the Consulting Public Health Engineer for his instructions regarding the preparation of the project;

In the case of projects for local bodies which are to be prepared by the Public Works Department, the above procedure will be followed only after funds covering the estimated cost of the survey have been placed at the disposal of Government by the local body concerned.

(*e*) On receipt of the instructions of the Consulting Public Health Engineer regarding the preparation of the project, the Executive Engineer of the Public Works Department Division concerned will prepare all the necessary plans and estimates and will submit them to Government through the Consulting Public Health Engineer.

When a project is prepared on behalf of a local body, the cost of the preparation of the project, as noted in Appendix II, should be recovered from that body, before the work contemplated is commenced;

(*f*) When a Public Health work is under construction, either on behalf of Government or a local body, the Consulting Public Health Engineer to Government will be required to inspect the work from time to time, and no deviations from the sanctioned designs shall be made without his concurrence, in writing, in the proposed deviations.

V. G. SHETE,
Secretary,
Board of Public Health Works,
Bombay Presidency.

Poona, 20th November 1935.

APPENDIX II.

Fees in respect of preparation, scrutiny, execution and superintendence of Public Health Works carried out by Government Agency.

(1) *For preliminary investigation and report.*—For a local body—no charge. For outside body the daily pay of the officer making the investigation and the staff which accompanies him from the date of leaving headquarters till the date of return *plus* 50 per cent. for a period not exceeding seven days.

For periods in excess of seven days the charge will be as above for the first seven days, and thereafter—

Daily pay of the officer making the investigation and staff which accompanies him *plus* 100 per cent.

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In all cases the travelling and halting allowances of the Consulting Public Health Engineer and his staff will be paid by the local or outside body concerned.

(2) *For carrying out detailed surveys in connection with a project.*—The estimated cost of the survey, including cost of establishment to be engaged, shall be recovered.

(3) *For preparation of a project complete with all necessary drawings and estimates.*—2½ per cent. of the estimated cost less the amounts paid under (1) and (2) above.

(4) *For scrutiny by the Consulting Public Health Engineer of a project prepared for a local or outside body by an agency other than the Public Works Department.*— 1¼ per cent. of the estimated cost of the project.

(5) *Inspection by the Consulting Public Health Engineer of Public Health Works under construction, if constructed by an agency other than the Public Works Department.*— 1¼ per cent. of the estimated cost of the project.

If the Consulting Public Health Engineer is asked to act continuously as consultant for any work and has accordingly to visit that work from time to time as it progresses, the charge will be 1¼ per cent. If at the request of the local body he pays an occasional visit, the charges will be Rs. 100 *plus* the actual expenses of journey, *plus* usual travelling allowances, etc., but no charge is made for visits made by him on his own initiative or advice offered on such visits or for visits by the engineer of local bodies to him at his office to consult him about any particular point that arises.

(6) *Construction of works by the Public Works Department on behalf of a local body.*—Establishment and tools and plant charges at 15 per cent. of the estimated cost of the project inclusive of 2½ per cent. for preparation of plans and estimates.

An application for raising a loan either from Government or in the open market is only sanctioned after a Public Health scheme has been approved administratively by the Board of Public Health Works.

Moreover, Public Health Works financed from loans taken by local bodies are, if executed by their own qualified agency, subject to control and inspection by the Consulting Public Health Engineer according to rules framed under the Local Authorities Loans Act. But, where the local body does not either possess a staff, or employ a qualified agency, capable of carrying out the work on approved lines, Government would impose a condition that the work should be carried out by the Agency of the Public Works Department.

V. G. SHETE,

Secretary,
Board of Public Health Works,
Bombay Presidency.

Poona, 20th November 1935.

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